EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	10490	709/224	USPAT	OR	OFF	2008/01/03 11:44
L2	34012	379/207 379/221 455/428 455/433 455/435 370/401 709/224	US-PGPUB; USPAT; USOCR; FPRS; EPO; DERWENT; IBM_TDB	OR	ON	2008/01/03 11:51
L3	3319	switch$3 adj(subscriber near$2 station)	USPAT	OR	OFF	2008/01/03 11:51
L4	406	2 and L3	US-PGPUB; USPAT; USOCR; FPRS; EPO; DERWENT; IBM_TDB	OR	ON	2008/01/03 11:51
S1	70	(370/379).CCLS.	USPAT; USOCR	OR	OFF	2004/09/08 09:08
S2	55	((370/379).CCLS.) and (short circuit)	USPAT	OR	OFF	2004/09/08 09:08
S3	9	(((370/379).CCLS.) and (short circuit)) and (ground fault)	USPAT	OR	OFF	2004/09/08 09:08
S4	7	Lobig.in.	USPAT	OR	OFF	2004/09/10 10:21
S5	8464	Norbert Lobig.in.	USPAT	OR	OFF	2004/09/10 10:22
S6	21	Nobert.in.	USPAT	OR	OFF	2004/09/10 11:18
S7	2776	switch$3 adj(subscriber near$2 station)	USPAT	OR	OFF	2004/09/13 14:51
S8	1438	(switch$3 adj(subscriber near$2 station)) and network	USPAT	OR	OFF	2004/09/13 14:51
S9	300	((switch$3 adj(subscriber near$2 station)) and network) and telecommunication	USPAT	OR	OFF	2004/09/13 14:51
S10	61	(((switch$3 adj(subscriber near$2 station)) and network) and telecommunication) and (local adj exchange)	USPAT	OR	OFF	2004/09/13 14:51
S11	22	"3963489"	USPAT	OR	OFF	2004/09/14 07:09
S12	39	"4047184"	USPAT	OR	OFF	2004/09/14 07:05
S13	8	"4071944"	USPAT	OR	OFF	2004/09/14 07:05
S14	16	"4679299"	USPAT	OR	OFF	2004/09/14 07:09
S15	10	"4710263"	USPAT	OR	OFF	2004/09/14 07:10
S16	15	"4818712"	USPAT	OR	OFF	2004/09/14 07:10

EAST Search History

S17	39	"4822755"	USPAT	OR	OFF	2004/09/14 07:11
S18	53	"5075253"	USPAT	OR	OFF	2004/09/14 07:11
S19	12	"5429954"	USPAT	OR	OFF	2004/09/14 07:12
S20	10	"5597766"	USPAT	OR	OFF	2004/09/14 07:12
S21	21	"5622900"	USPAT	OR	OFF	2004/09/14 07:12
S22	57	"5625681"	USPAT	OR	OFF	2004/09/14 07:13
S23	15	"5637189"	USPAT	OR	OFF	2004/09/14 07:13
S24	15	"5770884"	USPAT	OR	OFF	2004/09/14 07:13
S25	6	"5789307"	USPAT	OR	OFF	2004/09/14 07:14
S26	3	"5901139"	USPAT	OR	OFF	2004/09/10 11:41
S27	83	"5541912"	USPAT	OR	OFF	2004/09/10 13:13
S28	0	"Hassain.in"	USPAT	OR	OFF	2004/09/10 13:13
S29	0	"Hussain.in"	USPAT	OR	OFF	2004/09/10 13:13
S30	315	Hussain.in.	USPAT	OR	OFF	2004/09/10 13:14
S31	73	(370/379).CCLS.	USPAT; USOCR	OR	OFF	2005/07/07 14:56
S32	55	((370/379).CCLS.) and (short circuit)	USPAT	OR	OFF	2005/07/07 14:56
S33	9	(((370/379).CCLS.) and (short circuit)) and (ground fault)	USPAT	OR	OFF	2005/07/07 14:56
S34	8	Lobig.in.	USPAT	OR	OFF	2005/07/07 14:56
S35	8776	Norbert Lobig.in.	USPAT	OR	OFF	2005/07/07 14:56
S36	23	Nobert.in.	USPAT	OR	OFF	2005/07/07 14:56
S37	2922	switch$3 adj(subscriber near$2 station)	USPAT	OR	OFF	2005/07/07 14:56
S38	1532	(switch$3 adj(subscriber near$2 station)) and network	USPAT	OR	OFF	2005/07/07 14:56
S39	335	((switch$3 adj(subscriber near$2 station)) and network) and telecommunication	USPAT	OR	OFF	2005/07/07 14:56
S40	66	(((switch$3 adj(subscriber near$2 station)) and network) and telecommunication) and (local adj exchange)	USPAT	OR	OFF	2005/07/07 14:56
S41	22	"3963489"	USPAT	OR	OFF	2005/07/07 14:56
S42	39	"4047184"	USPAT	OR	OFF	2005/07/07 14:56
S43	9	"4071944"	USPAT	OR	OFF	2005/07/07 14:56
S44	17	"4679299"	USPAT	OR	OFF	2005/07/07 14:56
S45	10	"4710263"	USPAT	OR	OFF	2005/07/07 14:56
S46	15	"4818712"	USPAT	OR	OFF	2005/07/07 14:56

EAST Search History

S47	43	"4822755"	USPAT	OR	OFF	2005/07/07 14:56
S48	54	"5075253"	USPAT	OR	OFF	2005/07/07 14:56
S49	15	"5429954"	USPAT	OR	OFF	2005/07/07 14:56
S50	11	"5597766"	USPAT	OR	OFF	2005/07/07 14:56
S51	21	"5622900"	USPAT	OR	OFF	2005/07/07 14:56
S52	58	"5625681"	USPAT	OR	OFF	2005/07/07 14:56
S53	18	"5637189"	USPAT	OR	OFF	2005/07/07 14:56
S54	17	"5770884"	USPAT	OR	OFF	2005/07/07 14:56
S55	7	"5789307"	USPAT	OR	OFF	2005/07/07 14:56
S56	331	Hussain.in.	USPAT	OR	OFF	2005/07/07 14:56
S57	0	"Hussain.in"	USPAT	OR	OFF	2005/07/07 14:56
S58	0	"Hassain.in"	USPAT	OR	OFF	2005/07/07 14:56
S59	83	"5541912"	USPAT	OR	OFF	2005/07/07 14:56
S60	4	"5901139"	USPAT	OR	OFF	2005/07/07 14:56
S61	13	URL and "switch identifier"	USPAT	OR	OFF	2005/07/07 17:03
S62	8	S61 and @ad<"19981209"	USPAT	OR	OFF	2005/07/07 17:02
S63	0	URL with "switch identifier"	USPAT	OR	OFF	2005/07/07 17:10
S64	59	URL with ATM	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/07/07 17:11
S65	10	S64 and @ad<"19981209"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/07/07 17:11
S66	7	"6285671"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/07/07 17:26

EAST Search History

S67	51	("4430731" | "4512013" | "5291479" | "5305312" | "5410343" | "5428608" | "5440585" | "5448555" | "5459730" | "5463616" | "5469496" | "5473613" | "5475735" | "5479491" | "5506866" | "5511075" | "5519731" | "5528281" | "5528285" | "5528666" | "5533019" | "5535204" | "5537436" | "5550649" | "5555258" | "5572572" | "5592538" | "5598456" | "5602837" | "5603095" | "5610910" | "5610972" | "5613191" | "5617450" | "5636266" | "5640444" | "5644629" | "5664003" | "5793498" | "5854829" | "5862202" | "5892591" | "5937040" | "6005677" | "6005873" | "6020915" | "6028917" | "6044403" | "6049531" | "6075784" | "6141339").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/07/07 17:26
S68	588	URL with identif$4 with network	USPAT	OR	OFF	2005/07/07 17:31
S69	285	S68 and @ad<"19981209"	USPAT	OR	OFF	2005/07/07 17:31
S70	1	S69 and "ATM network"	USPAT	OR	OFF	2005/07/08 13:20
S71	20555	ATM with network	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/07/08 13:50
S72	4334	IP with phone	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/07/08 13:53
S73	686	S71 and S72	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/07/08 13:53
S74	60	S73 and @ad<"19981209"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/07/08 13:54
S75	127513	networks and (node$2 router$@ gateway$2) and (terminal$2 user$2)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2005/12/20 17:53

EAST Search History

S76	699496	network$2 near20 connect$3 near20 another network$2	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2005/12/20 17:53
S77	127513	S75 and S76	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2005/12/20 17:52
S78	124128	networks and (node$2 router$@ gateway$2) and (terminal$2 user$2)	US-PGPUB; USPAT	OR	ON	2005/12/20 17:53
S79	576538	network$2 near20 connect$3 near20 another network$2	US-PGPUB; USPAT	OR	ON	2005/12/20 17:53
S80	124128	S78 and S79	US-PGPUB; USPAT	OR	ON	2005/12/20 17:54
S81	42531	S80 and (@ad<"19981209" @rlad<"19981209")	US-PGPUB; USPAT	OR	ON	2005/12/20 17:59
S82	12724	S81 and routing	US-PGPUB; USPAT	OR	ON	2005/12/20 17:59
S83	3168	S82 and synchronous	US-PGPUB; USPAT	OR	ON	2005/12/20 18:02
S84	28	S83 and (delet$3 adj rout$4)	US-PGPUB; USPAT	OR	ON	2005/12/20 18:00
S85	0	(mutiple adj network$2) near10 connect$3	US-PGPUB; USPAT	OR	ON	2005/12/20 18:03
S86	0	(mutiple near10 network$2) near10 connect$3	US-PGPUB; USPAT	OR	ON	2005/12/20 18:03
S87	246198	(network$2) near10 connect$3	US-PGPUB; USPAT	OR	ON	2005/12/20 18:04
S88	245500	(networks) near10 connect$3	US-PGPUB; USPAT	OR	ON	2005/12/20 18:04
S89	91	S88 and S78 and S79 and rout$3 and (@ad<"19981209" @rlad<"19981209") and (delet$3 adj rout$3)	US-PGPUB; USPAT	OR	ON	2005/12/21 13:02
S90	61	"5625681"	US-PGPUB; USPAT	OR	ON	2005/12/21 13:48
S91	2	"6564214"	US-PGPUB; USPAT	OR	ON	2005/12/21 18:16
S92	145	379/221.02.ccls.	US-PGPUB; USPAT	OR	ON	2005/12/21 18:16
S93	93	379/221.02.ccls. and (@ad<"19981209" @rlad<"19981209")	US-PGPUB; USPAT	OR	ON	2005/12/21 18:23

EAST Search History

S94	25	S93 and mobile	US-PGPUB; USPAT	OR	ON	2005/12/21 18:23
S95	84	"5758281"	USPAT	OR	OFF	2006/06/01 16:12
S96	1	"5758281".pn.	USPAT	OR	OFF	2006/06/01 17:35
S97	1101	455/428	USPAT	OR	OFF	2006/06/01 17:35
S98	2067	455/433	USPAT	OR	OFF	2006/06/01 17:35
S99	1850	455/435	USPAT	OR	OFF	2006/06/01 17:35
S100	77	(370/379).CCLS.	USPAT; USOCR	OR	OFF	2006/06/01 17:40
S101	58	((370/379).CCLS.) and (short circuit)	USPAT	OR	OFF	2006/06/01 17:40
S102	10	(((370/379).CCLS.) and (short circuit)) and (ground fault)	USPAT	OR	OFF	2006/06/01 17:40
S103	9	Lobig.in.	USPAT	OR	OFF	2006/06/01 17:40
S104	9078	Norbert Lobig.in.	USPAT	OR	OFF	2006/06/01 17:40
S105	25	Nobert.in.	USPAT	OR	OFF	2006/06/01 17:40
S106	3070	switch$3 adj(subscriber near$2 station)	USPAT	OR	OFF	2006/06/01 17:40
S107	1634	(switch$3 adj(subscriber near$2 station)) and network	USPAT	OR	OFF	2006/06/01 17:40
S108	360	((switch$3 adj(subscriber near$2 station)) and network) and telecommunication	USPAT	OR	OFF	2006/06/01 17:40
S109	70	(((switch$3 adj(subscriber near$2 station)) and network) and telecommunication) and (local adj exchange)	USPAT	OR	OFF	2006/06/01 17:40
S110	22	"3963489"	USPAT	OR	OFF	2006/06/01 17:40
S111	39	"4047184"	USPAT	OR	OFF	2006/06/01 17:40
S112	10	"4071944"	USPAT	OR	OFF	2006/06/01 17:40
S113	17	"4679299"	USPAT	OR	OFF	2006/06/01 17:40
S114	10	"4710263"	USPAT	OR	OFF	2006/06/01 17:40
S115	15	"4818712"	USPAT	OR	OFF	2006/06/01 17:40
S116	44	"4822755"	USPAT	OR	OFF	2006/06/01 17:40

EAST Search History

S117	58	"5075253"	USPAT	OR	OFF	2006/06/01 17:40
S118	22	"5429954"	USPAT	OR	OFF	2006/06/01 17:40
S119	13	"5597766"	USPAT	OR	OFF	2006/06/01 17:40
S120	24	"5622900"	USPAT	OR	OFF	2006/06/01 17:40
S121	59	"5625681"	USPAT	OR	OFF	2006/06/01 17:40
S122	20	"5637189"	USPAT	OR	OFF	2006/06/01 17:40
S123	18	"5770884"	USPAT	OR	OFF	2006/06/01 17:40
S124	15	"5789307"	USPAT	OR	OFF	2006/06/01 17:40
S125	350	Hussain.in.	USPAT	OR	OFF	2006/06/01 17:40
S126	0	"Hussain.in"	USPAT	OR	OFF	2006/06/01 17:40
S127	0	"Hassain.in"	USPAT	OR	OFF	2006/06/01 17:40
S128	89	"5541912"	USPAT	OR	OFF	2006/06/01 17:40
S129	7	"5901139"	USPAT	OR	OFF	2006/06/01 17:40
S130	77	(370/379).CCLS.	USPAT; USOCR	OR	OFF	2006/06/01 17:40
S131	58	((370/379).CCLS.) and (short circuit)	USPAT	OR	OFF	2006/06/01 17:40
S132	3070	switch$3 adj(subscriber near$2 station)	USPAT	OR	OFF	2006/06/01 17:40
S133	1634	(switch$3 adj(subscriber near$2 station)) and network	USPAT	OR	OFF	2006/06/01 17:40
S134	360	((switch$3 adj(subscriber near$2 station)) and network) and telecommunication	USPAT	OR	OFF	2006/06/01 17:40
S135	0	"Hussain.in"	USPAT	OR	OFF	2006/06/01 17:40
S136	0	"Hassain.in"	USPAT	OR	OFF	2006/06/01 17:40
S137	10	(((370/379).CCLS.) and (short circuit)) and (ground fault)	USPAT	OR	OFF	2006/06/01 17:40

EAST Search History

S138	9	Lobig.in.	USPAT	OR	OFF	2006/06/01 17:40
S139	25	Nobert.in.	USPAT	OR	OFF	2006/06/01 17:40
S140	70	(((switch$3 adj(subscriber near$2 station)) and network) and telecommunication) and (local adj exchange)	USPAT	OR	OFF	2006/06/01 17:40
S141	22	"3963489"	USPAT	OR	OFF	2006/06/01 17:40
S142	39	"4047184"	USPAT	OR	OFF	2006/06/01 17:40
S143	10	"4071944"	USPAT	OR	OFF	2006/06/01 17:40
S144	17	"4679299"	USPAT	OR	OFF	2006/06/01 17:40
S145	10	"4710263"	USPAT	OR	OFF	2006/06/01 17:40
S146	15	"4818712"	USPAT	OR	OFF	2006/06/01 17:40
S147	44	"4822755"	USPAT	OR	OFF	2006/06/01 17:40
S148	58	"5075253"	USPAT	OR	OFF	2006/06/01 17:40
S149	22	"5429954"	USPAT	OR	OFF	2006/06/01 17:40
S150	13	"5597766"	USPAT	OR	OFF	2006/06/01 17:40
S151	24	"5622900"	USPAT	OR	OFF	2006/06/01 17:40
S152	59	"5625681"	USPAT	OR	OFF	2006/06/01 17:40
S153	20	"5637189"	USPAT	OR	OFF	2006/06/01 17:40
S154	18	"5770884"	USPAT	OR	OFF	2006/06/01 17:40
S155	15	"5789307"	USPAT	OR	OFF	2006/06/01 17:40
S156	89	"5541912"	USPAT	OR	OFF	2006/06/01 17:40
S157	7	"5901139"	USPAT	OR	OFF	2006/06/01 17:40
S158	350	Hussain.in.	USPAT	OR	OFF	2006/06/01 17:40

EAST Search History

S159	9078	Norbert Lobig.in.	USPAT	OR	OFF	2006/06/01 17:40
S160	13	URL and "switch identifier"	USPAT	OR	OFF	2006/06/01 17:40
S161	8	S160 and @ad<"19981209"	USPAT	OR	OFF	2006/06/01 17:40
S162	0	URL with "switch identifier"	USPAT	OR	OFF	2006/06/01 17:40
S163	88	URL with ATM	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/01 17:40
S164	16	S163 and @ad<"19981209"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/01 17:40
S165	10	"6285671"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/01 17:40
S166	51	("4430731" | "4512013" | "5291479" | "5305312" | "5410343" | "5428608" | "5440585" | "5448555" | "5459730" | "5463616" | "5469496" | "5473613" | "5475735" | "5479491" | "5506866" | "5511075" | "5519731" | "5528281" | "5528285" | "5528666" | "5533019" | "5535204" | "5537436" | "5550649" | "5555258" | "5572572" | "5592538" | "5598456" | "5602837" | "5603095" | "5610910" | "5610972" | "5613191" | "5617450" | "5636266" | "5640444" | "5644629" | "5664003" | "5793498" | "5854829" | "5862202" | "5892591" | "5937040" | "6005677" | "6005873" | "6020915" | "6028917" | "6044403" | "6049531" | "6075784" | "6141339").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/01 17:40
S167	712	URL with identif$4 with network	USPAT	OR	OFF	2006/06/01 17:40
S168	290	S167 and @ad<"19981209"	USPAT	OR	OFF	2006/06/01 17:40
S169	1	S168 and "ATM network"	USPAT	OR	OFF	2006/06/01 17:40

EAST Search History

S170	23915	ATM with network	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/01 17:40
S171	5935	IP with phone	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/01 17:40
S172	875	S170 and S171	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/06/01 17:40
S173	60	S172 and @ad<"19981209"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/09 10:57
S174	141682	networks and (node$2 router$@ gateway$2) and (terminal$2 user$2)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/06/01 17:40
S175	750391	network$2 near20 connect$3 near20 another network$2	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/06/01 17:40
S176	141682	S174 and S175	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/06/01 17:40
S177	138296	networks and (node$2 router$@ gateway$2) and (terminal$2 user$2)	US-PGPUB; USPAT	OR	ON	2006/06/01 17:40
S178	627396	network$2 near20 connect$3 near20 another network$2	US-PGPUB; USPAT	OR	ON	2006/06/01 17:40
S179	138296	S177 and S178	US-PGPUB; USPAT	OR	ON	2006/06/01 17:40
S180	43233	S179 and (@ad<"19981209" @rlad<"19981209")	US-PGPUB; USPAT	OR	ON	2006/06/01 17:40
S181	13011	S180 and routing	US-PGPUB; USPAT	OR	ON	2006/06/01 17:40
S182	3246	S181 and synchronous	US-PGPUB; USPAT	OR	ON	2006/06/01 17:40

EAST Search History

S183	28	S182 and (delet$3 adj rout$4)	US-PGPUB; USPAT	OR	ON	2006/06/01 17:40
S184	0	(mutiple adj network$2) near10 connect$3	US-PGPUB; USPAT	OR	ON	2006/06/01 17:40
S185	0	(mutiple near10 network$2) near10 connect$3	US-PGPUB; USPAT	OR	ON	2006/06/01 17:40
S186	270566	(network$2) near10 connect$3	US-PGPUB; USPAT	OR	ON	2006/06/01 17:40
S187	269752	(networks) near10 connect$3	US-PGPUB; USPAT	OR	ON	2006/06/01 17:40
S188	93	S187 and S177 and S178 and rout$3 and (@ad<"19981209" @rlad<"19981209") and (delet$3 adj rout$3)	US-PGPUB; USPAT	OR	ON	2006/06/01 17:40
S189	61	"5625681"	US-PGPUB; USPAT	OR	ON	2006/06/01 17:40
S190	3	"6564214"	US-PGPUB; USPAT	OR	ON	2006/06/01 17:40
S191	151	379/221.02.ccls.	US-PGPUB; USPAT	OR	ON	2006/06/01 17:40
S192	95	379/221.02.ccls. and (@ad<"19981209" @rlad<"19981209")	US-PGPUB; USPAT	OR	ON	2006/06/01 17:40
S193	25	S192 and mobile	US-PGPUB; USPAT	OR	ON	2006/06/01 17:40
S194	84	"5758281"	USPAT	OR	OFF	2006/06/01 17:40
S195	1	"5758281".pn.	USPAT	OR	OFF	2006/06/01 17:40
S196	107	retain$2 near5 phone near2 number	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/09 10:56
S197	9652046	@ad<"19980905" and @ad<"19980905"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/09 11:00
S198	26	S196 and S197	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/09 11:15

EAST Search History

S199	107	retain$2 near5 phone near2 number	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/09 12:53
S200	9652046	@ad<"19980905" and @ad<"19980905"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/09 12:53
S201	26	S199 and S200	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/09 12:53
S202	23	S201 and (central$3 local$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/09 13:59
S203	1	"5758281".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/09 14:29
S204	5926	709/218	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/09 14:29
S205	1472	455/428	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/09 14:30
S206	134	(local near2 exchange) same ("same" near2 number)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	ON	2007/12/26 15:52
S207	11845444	@ad<"20010305" @rlad<"20010305"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	ON	2007/12/26 15:55

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S208	91	S206 and S207	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	ON	2007/12/26 16:24
S209	1	"4791665".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	ON	2007/12/26 16:24
S210	1	"4797915".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	ON	2007/12/26 16:25

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1 An open architecture for next-generation telecommunication services

Gregory W. Bond, Eric Cheung, K. Hal Purdy, Pamela Zave, J. Christopher Ramming
February 2004 **ACM Transactions on Internet Technology (TOIT)**, Volume 4 Issue 1
Publisher: ACM Press

Full text available: pdf(237.24 KB) Additional Information: full citation, abstract, references, citings, index terms

An open (in the sense of extensible and programmable) architecture for IP telecommunications must be based on a comprehensive strategy for managing feature interaction. We describe our experience with BoxOS, an IP telecommunication platform that implements the DFC technology for feature composition. We present solutions to problems, common to all efforts in IP telecommunications, of feature distribution, interoperability, and media management. We also explain how BoxOS addresses many deficiencie ...

Keywords: Component architectures, Intelligent Network architecture, Session Initiation Protocol, electronic mail, feature interaction, instant messaging, multimedia systems, network addressing, network interoperation, network optimization, network protocols, service creation

2 A quantitative measure for telecommunications networks topology design

Nicholas F. Maxemchuk, Iradj Ouveysi, Moshe Zukerman
August 2005 **IEEE/ACM Transactions on Networking (TON)**, Volume 13 Issue 4
Publisher: IEEE Press

Full text available: pdf(588.34 KB) Additional Information: full citation, abstract, references, index terms, review

This paper proposes a new measure for network performance evaluation called topology lifetime. The measure provides insight into which one of a set of topologies is likely to last the longest before more capacity must be installed. The lifetime measure is not single valued, but considers growth as a function of a set of demand shifts (perturbation). One network may be better able to support a uniform growth in the traffic, while another may support more growth when unexpected shifts in the load ...

Keywords: dense wavelength division multiplexing (DWDM), linear programming, network topology, telecommunications

3 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

Publisher: IBM Press

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

4 Securing a global village and its resources: baseline security for interconnected signaling system #7 telecommunications networks

Hank M. Kluepfel

December 1993 **Proceedings of the 1st ACM conference on Computer and communications security CCS '93**

Publisher: ACM Press

Full text available: pdf(1.19 MB) Additional Information: full citation, abstract, references, index terms

The resulting national focus on Network Integrity issues, spawned the development of an industry commitment to affect and realize a minimum security baseline for interconnected SS7 networks. In addition the affected carriers in those outage have accelerated their pursuit of secure solutions to today's intelligent networking.[2]This paper will focus on the development of the baseline and the current effort to take the baseline into national, e.g., National Ins ...

5 Reviewed articles: A clean slate 4D approach to network control and management

Albert Greenberg, Gisli Hjalmtysson, David A. Maltz, Andy Myers, Jennifer Rexford, Geoffrey Xie, Hong Yan, Jibin Zhan, Hui Zhang

October 2005 **ACM SIGCOMM Computer Communication Review**, Volume 35 Issue 5

Publisher: ACM Press

Full text available: pdf(313.74 KB) Additional Information: full citation, abstract, references, index terms

Today's data networks are surprisingly fragile and difficult to manage. We argue that the root of these problems lies in the complexity of the control and management planes--the software and protocols coordinating network elements--and particularly the way the decision logic and the distributed-systems issues are inexorably intertwined. We advocate a complete refactoring of the functionality and propose three key principles--network-level objectives, network-wide views, and direct control--that ...

Keywords: control, network management, robustness

6 Charles W. Bachman interview: September 25-26, 2004; Tucson, Arizona

Thomas Haigh

January 2006 **ACM Oral History interviews**

Publisher: ACM Press

Full text available: pdf(761.66 KB) Additional Information: full citation, abstract

Charles W. Bachman reviews his career. Born during 1924 in Kansas, Bachman attended high school in East Lansing, Michigan before joining the Army Anti Aircraft Artillery Corp, with which he spent two years in the Southwest Pacific Theater, during World War II. After his discharge from the military, Bachman earned a B.Sc. in Mechanical Engineering

in 1948, followed immediately by an M.Sc. in the same discipline, from the University of Pennsylvania. On graduation, he went to work for Do ...

7 Special issue on wireless extensions to the internet: Interworking internet telephony and wireless telecommunications networks

Jonathan Lennox, Kazutaka Murakami, Mehmet Karaul, Thomas F. La Porta
October 2001 **ACM SIGCOMM Computer Communication Review**, Volume 31 Issue 5
Publisher: ACM Press
Full text available: pdf(1.09 MB) Additional Information: full citation, abstract, references

Internet telephony and mobile telephony are both growing very rapidly. Directly interworking the two presents significant advantages over connecting them through an intermediate PSTN link. We propose three novel schemes for the most complex aspect of the interworking: call delivery from an Internet telephony (SIP) terminal to a mobile telephony (UMTS) terminal. We then evaluate the proposals both qualitatively and quantitatively. However, existing equipment may not support packet interfaces n ...

8 Address translation in telecommunication features

Pamela Zave
January 2004 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 13 Issue 1
Publisher: ACM Press
Full text available: pdf(378.36 KB) Additional Information: full citation, abstract, references, citings, index terms

Address translation causes a wide variety of interactions among telecommunication features. This article begins with a formal model of address translation and its effects, and with principles for understanding how features should interact in the presence of address translation. There is a simple and intuitive set of constraints on feature behavior so that features will interact according to the principles. This scheme (called "ideal address translation") has provable properties, is modular (expl ...

Keywords: Component architecture, feature interaction, formal methods, network addressing, network protocols, network security, requirements, telecommunications

9 A direct signaling system for flexible access and deployment of telecommunication services

Thomas F. La Porta, Kuo-Wei Herman Chen
August 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 4
Publisher: IEEE Press
Full text available: pdf(219.51 KB) Additional Information: full citation, references, index terms

Keywords: ISDN, intellignet networks, signaling

10 Optimal pricing for multiple services in telecommunications networks offering quality-of-service guarantees

Neil J. Keon, G. Anandalingam
February 2003 **IEEE/ACM Transactions on Networking (TON)**, Volume 11 Issue 1
Publisher: IEEE Press
Full text available: pdf(793.52 KB) Additional Information: full citation, abstract, references, citings, index terms

We consider pricing for multiple services offered over a single telecommunications network. Each service has quality-of-service (QoS) requirements that are guaranteed to users. Service classes may be defined by the type of service, such as voice, video, or data, as well as the origin and destination of the connection provided to the user. We formulate the optimal pricing problem as a nonlinear integer expected revenue optimization problem. We simultaneously solve for prices and the resource allo ...

Keywords: economics, network design, pricing, quality of service (QoS)

11 A survey of routing techniques for mobile communications networks
S. Ramanathan, Martha Steenstrup
October 1996 **Mobile Networks and Applications**, Volume 1 Issue 2
Publisher: Kluwer Academic Publishers
Full text available: pdf(276.88 KB) Additional Information: full citation, abstract, references, citings, index terms

Mobile wireless networks pose interesting challenges for routing system design. To produce feasible routes in a mobile wireless network, a routing system must be able to accommodate roving users, changing network topology, and fluctuat- ing link quality. We discuss the impact of node mobility and wireless communication on routing system design, and we survey the set of techniques employed in or proposed for routing in mobile wireless networks.

12 Pen computing: a technology overview and a vision
André Meyer
July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3
Publisher: ACM Press
Full text available: pdf(5.14 MB) Additional Information: full citation, abstract, citings, index terms

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions.Starting with a short historic ...

13 Channel sharing scheme for packet-switched cellular networks
Suresh Kalyanasundaram, Junyi Li, Edwin K. P. Chong, Ness B. Shroff
November 2005 **Wireless Networks**, Volume 11 Issue 6
Publisher: Kluwer Academic Publishers
Full text available: pdf(2.53 MB) Additional Information: full citation, abstract, references, index terms

In this paper, we study an approach for sharing channels to improve network utilization in packet-switched cellular networks. Our scheme exploits unused resources in neighboring cells without the need for global coordination. We formulate a minimax approach to Optimizing the allocation of channels in this sharing scheme. We develop a measurement-based distributed algorithm to achieve this objective and study its convergence. We illustrate, via simulation results, that the distributed channel sha ...

Keywords: cellular networks, channel sharing, convergence, distributed algorithm, minimax problem, packet switching

14 Balancing register allocation across threads for a multithreaded network processor
Xiaotong Zhuang, Santosh Pande

June 2004 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2004 conference on Programming language design and implementation PLDI '04**, Volume 39 Issue 6
Publisher: ACM Press

Full text available: pdf(429.85 KB) Additional Information: full citation, abstract, references, citings, index terms

Modern network processors employ multi-threading to allow concurrency amongst multiple packet processing tasks. We studied the properties of applications running on the network processors and observed that their imbalanced register requirements across different threads at different program points could lead to poor performance. Many times application needs demand some threads to be more performance critical than others and thus by controlling the register allocation across threads one could impa ...

Keywords: multithreaded processor, network processor, register allocation

15 Stochastic control of path optimization for inter-switch handoffs in wireless ATM networks

Vincent W. S. Wong, Mark E. Lewis, Victor C. M. Leung
June 2001 **IEEE/ACM Transactions on Networking (TON)**, Volume 9 Issue 3
Publisher: IEEE Press

Full text available: pdf(350.85 KB) Additional Information: full citation, abstract, references, citings, index terms

One of the major design issues in wireless ATM networks is the support of Inter-switch handoffs. An inter-switch handoff occurs when a mobile terminal moves to a new base station connecting a different switch. Apart from resource allocation at the new base station, inter-switch handoff also requires connection rerouting. With the aim of minimizing the handoff delay while using the network resources efficiently, the two-phase handoff protocol uses path extension for each inter-switch handof ...

Keywords: connection rerouting, inter-switch bandoff, path optimization, wireless ATM

16 Security Mechanisms in High-Level Network Protocols

Victor L. Voydock, Stephen T. Kent
June 1983 **ACM Computing Surveys (CSUR)**, Volume 15 Issue 2
Publisher: ACM Press

Full text available: pdf(3.23 MB) Additional Information: full citation, references, citings

17 Strategic directions in networks and telecommunications

David Clark, Joseph Pasquale
December 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 4
Publisher: ACM Press

Full text available: pdf(204.75 KB) Additional Information: full citation, references, citings, index terms

18 A mixed-integer programming model for the cellular telecommunication network design

Filipe F. Mazzini, Geraldo R. Mateus
July 2001 **Proceedings of the 5th international workshop on Discrete algorithms and methods for mobile computing and communications DIALM '01**
Publisher: ACM Press

Full text available: pdf(708.43 KB) Additional Information: full citation, abstract, references, citings, index terms

The cellular telecommunication network design aims to define and dimension the cellular telecommunication system topology in order to serve the voice and/or data traffic demand of a particular geographic region. In this article, we introduce a novel model that addresses the cellular system design problem in a complete fashion. We propose a linear mixed-integer programming model that gathers together into the same model the base station location problem, the frequency channel assignment proble ...

Keywords: base station location, cellular telecommunication systems, frequency channel assignment, mixed integer programming, network design

19 A manager's guide to integrated services digital network

James C. Brancheau, Justus D. Naumann
March 1987 **ACM SIGMIS Database**, Volume 18 Issue 3
Publisher: ACM Press
Full text available: pdf(1.03 MB) Additional Information: full citation, abstract, index terms

Large businesses are becoming increasingly dependent on telecommunications for their continued survival. A recent development in telecommunications which will have enormous strategic impact through the next decade is the concept of integrated services digital network (ISDN). ISDN's strategic value is tied to its goal of providing low cost voice, data, and video access to nearly every home and office in the United States, and eventually, the world. This paper describes what ISDN means and explore ...

20 A control and management network for wireless ATM systems

Stephen F. Bush, Sunil Jagannath, Ricardo Sanchez, Joseph B. Evans, Gary J. Minden, K. Sam Shanmugan, Victor S. Frost
September 1997 **Wireless Networks**, Volume 3 Issue 4
Publisher: Kluwer Academic Publishers
Full text available: pdf(573.05 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes the design of a control and management network (orderwire) for a mobile wireless Asynchronous Transfer Mode (ATM) network. This mobile wireless ATM network is part of the Rapidly Deployable Radio Network (RDRN). The orderwire system consists of a packet radio network which overlays the mobile wireless ATM network. Each network element in this network uses Global Positioning System (GPS) information to control a beamforming antenna subsystem which provides for spatial re ...

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